

CONFIDENTIAL

14 October 1958

BJECT:	Destructor System
1. Or	8 October 1958
condi	resting Grounds to determine
E commont?	lity of the Tee connectors. In previous tests, 4 out of ons failed, however, it was felt that the method of crimp-
	on on the branch line was at Isult. In the lollowing
ests the	erimp was always placed between the reference lip and the
	ive main lines (each approximately 55 feet in length) were on the ground and 20 branch lines were attached to each main
	the plastic Tee connectors. (One main line had 21 branches.) was placed on the end of each branch.
1	
Results:	One failure occurred and the end cap had the same
	flowered appearance as in the previous failures. Thus, 100 out of 101 were successful, however,
	Thus, 100 but of for well successful,
	it is felt that at least 50 more wee connectors
	it is felt that at least 50 more Tee connectors should be tested and not fail before this type
	it is felt that at least 50 more Tee connectors should be tested and not fail before this type of connections is considered reliable.
2 TT	should be tested and not fail before this type of connections is considered reliable. c determine what effect the charge in the end
3. T	should be tested and not fail before this type of connections is considered reliable. o determine what effect the charge in the end 4 loaded and 5 empty end caps were crimped on dummy prima-
2 TT	should be tested and not fail before this type of connections is considered reliable. o determine what effect the charge in the end 4 loaded and 5 empty end caps were crimped on dummy prima-
3. T caps has, cord branc	should be tested and not fail before this type of connections is considered reliable. o determine what effect the charge in the end to loaded and 5 empty end caps were crimped on dummy primables. I shows loaded end caps. The base on the one cap was not
3. T caps has, cord branc	should be tested and not fail before this type of connections is considered reliable. o determine what effect the charge in the end 4 loaded and 5 empty end caps were crimped on dummy prima-
3. T caps has, cord branc	should be tested and not fail before this type of connections is considered reliable. o determine what effect the charge in the end to loaded and 5 empty end caps were crimped on dummy primables. I shows loaded end caps. The base on the one cap was not
3. T caps has, cord branc	should be tested and not fail before this type of connections is considered reliable. o determine what effect the charge in the end to loaded and 5 empty end caps were crimped on dummy primables. I shows loaded end caps. The base on the one cap was not
3. T caps has, cord branc	should be tested and not fail before this type of connections is considered reliable. o determine what effect the charge in the end to loaded and 5 empty end caps were crimped on dummy primables. I shows loaded end caps. The base on the one cap was not
3. T caps has, cord branc	should be tested and not fail before this type of connections is considered reliable. o determine what effect the charge in the end to loaded and 5 empty end caps were crimped on dummy primables. I shows loaded end caps. The base on the one cap was not
3. T caps has, cord branc	should be tested and not fail before this type of connections is considered reliable. o determine what effect the charge in the end to loaded and 5 empty end caps were crimped on dummy primables. I shows loaded end caps. The base on the one cap was not
3. T caps has, cord branc	should be tested and not fail before this type of connections is considered reliable. o determine what effect the charge in the end to loaded and 5 empty end caps were crimped on dummy primables. I shows loaded end caps. The base on the one cap was not
3. T caps has, cord branc	should be tested and not fail before this type of connections is considered reliable. o determine what effect the charge in the end to loaded and 5 empty end caps were crimped on dummy primables. I shows loaded end caps. The base on the one cap was not

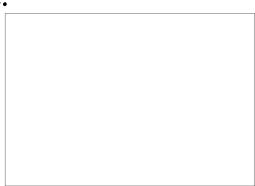
000 REV DATE 036756 BY 016956
0810 00MP 056 091 56 TYPE 02
0810 CLASS 5 PAGES 2 REV CLASS 5

SECRET

CONFIDENTIAL



Photo 2 shows the empty caps and it can be seen that they were only crushed. This indicates that the detonation of the PETN charge is responsible for the flowered appearance of the failures. The question now is to determine why the branches are not propagating when the PETN in the end cap detonates. One cause could be that enough PETN falls out of the primacord when it is cut that an air gap is left.



4. Ten end caps were picked at random and weighed to determine the uniformity of the 1/8" PETN base charge. The results were:

- 1. 1.57 grams
- 2. 1.57 grams
- 3. 1.57 grams
- 4. 1.57 grams
- 5. 1.56 grams
- 6. 1.56 grams
- 7. 1.56 grams 8. 1.61 grams
- 9. 1.61 grams
- 10. 1.56 grams

5. Additional reliability tests will be tried in the near future.



25X1

25X1

:mc

a' + - - 0

